SAP GRC Access Control

Did you forget what this tool is used for? Read here.

Access Risk Analysis (ARA)

In this SAP GRC Access Control module, the rule matrix (ruleset) is the most important part:

- GRACFUNC - Function
- GRACFUNCT - Function Description Translations
- GRACFUNCACT - Function Action Relationship
- GRACFUNCPRM - Function Action Permission relationship
    - Where ACTIVE = X means that the row is active

Data Browser: Table GRACFUNCPRM Select Entries 200

Check Table...

MANDT	FUNCTID	ACTION	CONNECTOR	SEQUENCE	RESOURCEID	RESOURCEEXTN	FROMVAL	TOVAL	SEARCHTYPE	ACTIVE	INACTIVE
800	AP01	F-04	G10CLNT800	1	F_AVIK_BUK	ACTVT	01		AND		
800	AP01	F-04	G10CLNT800	2	F_AVIK_BUK	BUKRS	$BUKRS		AND		
800	AP01	F-04	G10CLNT800	3	F_BKPF_BED	ACTVT	01		AND		
800	AP01	F-04	G10CLNT800	4	F_BKPF_BED	BRGRU			AND		
800	AP01	F-04	G10CLNT800	5	F_BKPF_BEK	ACTVT	01		AND		
800	AP01	F-04	G10CLNT800	6	F_BKPF_BEK	BRGRU			AND		
800	AP01	F-04	G10CLNT800	7	F_BKPF_BES	ACTVT	01		AND		
800	AP01	F-04	G10CLNT800	8	F_BKPF_BES	BRGRU			AND		
800	AP01	F-04	G10CLNT800	9	F_BKPF_BLA	ACTVT			AND		
800	AP01	F-04	G10CLNT800	10	F_BKPF_BLA	ACTVT	01		AND		
800	AP01	F-04	G10CLNT800	11	F_BKPF_BLA	BRGRU			AND		
800	AP01	F-04	G10CLNT800	12	F_BKPF_BUK	ACTVT	01	02	AND	X	
800	AP01	F-04	G10CLNT800	13	F_BKPF_BUK	BUKRS	$BUKRS		AND		
800	AP01	F-04	G10CLNT800	14	F_BKPF_GSB	ACTVT	01		AND		
800	AP01	F-04	G10CLNT800	15	F_BKPF_KOA	ACTVT	01		AND		
800	AP01	F-04	G10CLNT800	16	F_BKPF_KOA	KOART	K		AND		

- GRACSODRISKFUNC - SOD Risk Function Relationship
- GRACRULESET - Rule Set
- GRACRULESETT - Rule Set Description
- GRACORGRULE - Organization Rules
- GRACACTRULE - SOD Action Rule Detail
- GRACSODRISKT - SOD Risk Description
- GRACSODRISK - SOD Risk
    - RISKTYPE = 1: SOD, 2: Critical Action, 3: Critical Permission

Data Browser: Table GRACSODRISK Select Entries 35

Check Table...

MAN...	RISKID	RISKLEVEL	ACTI...	BZPRC...	UPDUSER	UPDTIME	ACTGEN	PRMGEN	RISKTYPE	DESCN
800	F001		X	FI00	[illegible]	25.10.2017 12:26:22			1	Aggiornare un conto Co.Ge. fittizio e nascondere attivit?? medi...
800	F002		X	FI00	[illegible]	25.10.2017 12:26:22			1	Modificare un centro di costo ed elaborare trasferimenti dei cos...
800	F003		X	FI00	[illegible]	25.10.2017 12:26:22			1	Modificare un centro di costo ed elaborare registrazioni utili no...
800	F004		X	FI00	[illegible]	25.10.2017 12:26:22			1	Manipolare report CC per nascondere registrazioni errate sul gi...
800	F005	1	X	FI00	[illegible]	25.10.2017 12:26:22			1	Aggiornare conto bancario e registrare un pagamento da esso
800	F006	1	X	FI00	[illegible]	25.10.2017 12:26:22			1	Pagare una fattura fornitore e nasconderla mediante ammorta...
800	F007	1	X	FI00	[illegible]	25.10.2017 12:26:22			1	Creare una fattura mediante EM ERS e nasconderla mediante a...
800	F008	1	X	FI00	[illegible]	25.10.2017 12:26:22			1	Nascondere differenze tra versamenti e incassi in contanti
800	F009	2	X	FI00	[illegible]	25.10.2017 12:26:22			1	Imputare costi a centri di costo non autorizzati
800	F010	2	X	FI00	[illegible]	25.10.2017 12:26:22			1	Liquidare spese da un ordine non autorizzato
800	F011	2	X	FI00	[illegible]	25.10.2017 12:26:22			1	Modificare tipo di attivit?? utilizzato per l'imputazione dei costi
800	F012		X	FI00	[illegible]	25.10.2017 12:26:22			1	Aggiornare cespite e capitalizzare o aggiungere costi al record ...
800	F013	1	X	FI00	[illegible]	25.10.2017 12:26:22			1	Aggiornare un cespite e manipolare l'entrata del cespite

- GRACSODRISKOWN - SOD Risk Owner
- GRACMITROLE - Role mitigating control assignment
- GRACMITUSER - User mitigating control assignment
- GRACCRPROFILE - Critical Profile Rule
- GRACCRROLE - Critical Role Rule
- GRACBPROC - Business Process
- GRACBPROT - Business Process Description
- GRACMGRISKD - Risk Analysis Mgmt Sum data for Batch Risk Analysis.
- HRP5320 - Defined mitigation controls
- HRT5320 - Defined mitigation controls
- GRACUSERPRMVL - User Permission Violation Table

Data Browser: Table GRACUSERPRMVL Select Entries 200

MANDT	USERID	XCONNECTOR	SEQUENCE	RISKID	ACTRULEID	FUNCTID	CONNECTOR	ACTION	RESOURCEID	RESOURCEEXTN	FROMVAL	TOVAL	ROLEID	COMPROLEID	PROFILEID	ORGRULEID	ACCONTROLID	MONITOR	R
800	ALEREMOTE	ECC_G10_810	1	AOCT	0001	AO18	ECC_G10_810	/SAPAPO/RRP2	S_TCODE	TCD	/SAPAPO/RRP2		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	2	AOCT	0002	AO18	ECC_G10_810	/SAPAPO/RRP5	S_TCODE	TCD	/SAPAPO/RRP5		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	3	AOMD	0001	AO19	ECC_G10_810	/SAPAPO/ADVM	S_TCODE	TCD	/SAPAPO/ADVM		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	4	AOMD	0002	AO19	ECC_G10_810	/SAPAPO/DM_MAT_MCH	S_TCODE	TCD	/SAPAPO/DM_MAT_MCH		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	5	AOMD	0003	AO19	ECC_G10_810	/SAPAPO/MC62	S_TCODE	TCD	/SAPAPO/MC62		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	6	AOMD	0004	AO19	ECC_G10_810	/SAPAPO/MC8R	S_TCODE	TCD	/SAPAPO/MC8R		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	7	AOMD	0005	AO19	ECC_G10_810	/SAPAPO/MC8U	S_TCODE	TCD	/SAPAPO/MC8U		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	8	AOMD	0006	AO19	ECC_G10_810	/SAPAPO/MC90	S_TCODE	TCD	/SAPAPO/MC90		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	9	AOMD	0008	AO19	ECC_G10_810	/SAPAPO/MODEL	S_TABU_DIS	ACTVT	02		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	IDES_90			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	10	AOMD	0008	AO19	ECC_G10_810	/SAPAPO/MODEL	S_TABU_DIS	DICBERCLS	XXXX		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	IDES_90			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	11	AOMD	0008	AO19	ECC_G10_810	/SAPAPO/MODEL	S_TCODE	TCD	/SAPAPO/MODEL		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2
800	ALEREMOTE	ECC_G10_810	12	AOMD	0009	AO19	ECC_G10_810	/SAPAPO/MSDP_ADMIN	S_TCODE	TCD	/SAPAPO/MSDP_ADMIN		000C29F8E7DD1ED18084D04...	000C29F8E7DD1ED18084D04...	Z:IDES_04			11.02.2017	2

Emergency Access Management (EAM)

In this SAP GRC Access Control module, the management of the super users or super roles is the most important part:

- GRACFFLOG - Details related to Firefighter ID Log On Information
- GRACFFREPMAPP - FFLOG and Repository Mapping for Firefighters
- GRACACTUSAGE - Action Usage
- GRACAUDITLOG - Security Audit Log table
- GRACSYSTEMLOG - System Security Log table
- GRACCHANGELOG - Data Change Log table
- GRACREASONCOD - Master table for Reason Codes
- GRACREASONSYS - Reason Code and System assignments
- GRACFFCTRL - Maintain assignment of FF ID or Role to Controllers
- GRACFFOBJECT - Maintain SPM Firefighter ID and Role details
- GRACFFUSER - Maintain SPM Firefighter Assignment to FF ID/Roles

Business Role Management (BRM)

In this SAP GRC Access Control module, the roles management is the most relevant part:

- GRACROLE - Role
- GRACROLEAPPRVR - Role Approver
- GRACROLESTATUS - Role Status Table
- GRACROLETYPE - Role Type Table
- GRACMTH - GRC Methodology
- GRACMTHT - GRC ERM Methodology Text

Access Request Management (ARQ)

It is a component to manage the operational workflows inside the Access Control suite. This part is managed through the usage of Business Rule Framework BRF+ and of the work framework called MSMP - Multi Stage Multi Path.

- GRACREQ - Request Header
- GRACREQPROVITEM - Line Items Associated with Request
- GRACREQUSER - User Associated with Request
- GRACEUPCONFIG - End User Personalization Fields
- GRFNMWCNPATH - MSMP Path
- GRFNMWCNROUTE - MSMP Route Mapping
- GRFNMWCNSDEF - MSMP Stage Definition
- GRFNMWRTAPPR - Current approver of Access Request (GRFNMWRTSTAPPR only during runtime)
- SWWUSERWI - Task ID assigned to users
- HRUS_D2 - Delegation table

GRC Access Control Foundation

Some tables are shared between different modules, like the following:

- GRACCONFIG - Configuration Parameter Table

Change View "AC Configuration settings": Overview

New Entries

AC Configuration settings

Parm Group	Param ID	Parameter Value	Priority	Description
1 Change Log	1001	YES		Enable Function Change Log
1 Change Log	1002	YES		Enable Risk Change Log
1 Change Log	1003	YES		Enable Organization Rule Log
1 Change Log	1004	YES		Enable Supplementary Rule Log
1 Change Log	1005	YES		Enable Critical Role Log
1 Change Log	1006	YES		Enable Critical Profile Log

- GRACOWNER - Master table for Central Owner Administration
- GRACTASKEXECSTMP - Executed background jobs Table, here you can find the last date of execution of the synchronization jobs
- GRPCPHIO - GRC: Instances of Physical Information Objects, here you can find the information about the attachments to the requests

When is it useful to use and when they aren't?

In my opinion it's useful to use and know the tables for activities like troubleshooting and uploaded data.

It makes sense to create alternative reports to the standard ones? It depends. It could be useful as a control activity of the GRC configuration or to anticipate potential problems like:

- Usage of roles without approvers in approval-based workflows
- Problems in the SoD Matric (ruleset) read here for more information on the sod matrix
- To verify the EAM configuration for the management of the super users

Basing further processes on data extractions from the tables directly inside the GRC system is probably non the best solution. **It's not possible to immediately guarantee, in case of update or modifications of the system, the original result of the extractions.**